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**FINAL REPORT
TO
US FISH AND WILDLIFE SERVICE
FOR
IMPLEMENTATION OF
SHASTA RIVER FISHERIES
HABITAT RESTORATION
PROJECTS**

**Shasta River Riparian Livestock Control Fencing
"Generic Fencing"**

14-48-0001-94538, 94-HR-37

December 1999

2002-010312/NF

**Shasta River Riparian Livestock Control Fencing
14-48-0001-94538, 94-HR-37**

The following report is submitted to the United States Fish and Wildlife Service concerning the Generic Fencing project 14-48-0001-94538, 94-HR-37 implemented by Great Northern Corporation.

Shasta River "Generic" Riparian Livestock Control Fencing

Abstract:

A total of 13,050 feet of livestock control fencing were placed during this project to protect the riparian areas of the mainstem Shasta River. Fencing was standard 5 strand barbed wire, corners were 6X8 treated railroad ties or 8 inch cement filled pipe. A total of 1,611 trees planted or protected along the banks. Extensive fence damage done to the "Meander Fence" was repaired at minimal cost to the project due to volunteer labor by GNC staff.

Introduction:

The Shasta River Watershed Group (CRMP) has attempted to maintain a continuing program of creating livestock control fencing along the Shasta River since 1989. The Klamath River Task Force funded this grant to continue that program.

Livestock control along the banks of the Shasta River is designed to protect the banks from mechanical damage by heavy livestock and to allow additional vegetative growth to create a buffer zone for water quality improvement and allow tree growth in order to provide shade to the river surface.

This project assisted local landowners construct livestock control fencing on 3 ranches and repaired flood damage caused by the 100 year flood of January 1997.

Description of Study area:

B&B Fiock Ranch is located up and down stream of the Ager Bridge T45N; R6W, S ½ of sec 17 and E½ of sec 18

Himmel Ranch is located adjacent and downstream of the Fiock Ranch T45N, R6W, E1/2 of sec 18.

Kuck Ranch is located at the confluence of the Little Shasta and Shasta Rivers T45N, R6W sec. 34

Meamber repairs were conducted at the Meamber fence immediately up and down stream of the Montague-Grenada Bridge. T45N, R6W, NE ¼ sec.28

Methods:

The river corridor was fenced at an average distance of 25 feet away from the top of the Shasta River bank. The materials used varied from 6X8 railroad ties for corner structures to cement filled 8" diameter pipe set in concrete. In all cases the Shasta CRMP used material requested by the landowner and approved by funding agencies and the California Department of Fish and Game.

Schematics of the fences are appended to this report. Type of fence is reported in the following results.

Results and discussion of accomplishments:

Task 1 Fence riparian corridor

Fencing is in place at the following ranches:

Bruce and Boyd Fiock Ranch

Upstream of Yreka/Ager Road 1,800 feet on two banks 3,600 feet
Downstream of Yreka/Ager Road 1,875 feet on two banks 3,750 feet
Railroad tie corners, 5 strand barbed wire standard specifications

- difficult connection to the County road bridge

Himmel Ranch

Down stream and connecting to B&B Fiock fence 3,150 feet
(note: this fence allows continuation of protection from the I5 bridge to the Yreka Railroad bridge upstream of the Yreka/Ager Road bridge.

Railroad tie corners, 5 strand barbed wire standard specifications

Kuck Ranch

At confluence of Little Shasta River 2,550 feet

(note : this site was fenced by Basic Fence)

8 inch pipe corners filled and set in concrete, 5 strand barbed wire standard specifications

Meamber Fence Repair (*post flood damage photos can be seen on KRIS/DB v.2.0*)

A catastrophic flood occurred in January of 1997. Damage was limited considering the extent of the high water. The Meamber Shasta River fence sustained damage and was repaired under this grant. All wire was let down and rehung to remove debris. One corner was replaced and the top cross fence was rebuilt.

Planting Activities

Trees were planted on the areas protected from livestock. Plantings were done to accelerate vegetative recovery in the area. All planted stock was protected with wire no climb cages staked with "t" posts. Planting consisted of a mix of cuttings and rooted stock of mainly willow species (sandbar and red) but also included in our mix were white alder, water birch, and black cottonwood. Some of the sites were irrigated under another grant.

Planting took place in the dormant period of 1996, 1997 and 1998.

Planting was done by GNC staff and volunteers from California Conservation Corps., Siskiyou Training and Education Program, students from Siskiyou County schools and the Department of Fish and Game.

- B&B Fiock Ranch total planted 739
- Kucks Ranch total planted 787
- Himmel Ranch no planting since there is a viable and vigorous stand of sandbar willows located throughout the Himmel site
- Norm Fiock Ranch 85 existing trees protected. *Fencing placed through a grant from the Bureau of Reclamation protected this site.*

A total of 1,611 trees planted or protected.

Summary and Conclusion:

A total of 13,050 feet of livestock control fence was created during this project. These funds were crucial for the Shasta River CRMP habitat protection and improvement program. The timing of these funds provided a major impetus to the Shasta River CRMP to assist local landowners in the improvement and protection of the fisheries habitat of the Shasta River.

Damage from the January 1997 flood was repaired at the Meamber Shasta River fence.

A total of 1,526 trees were planted and protected from beaver damage and 85 mature trees were protected.

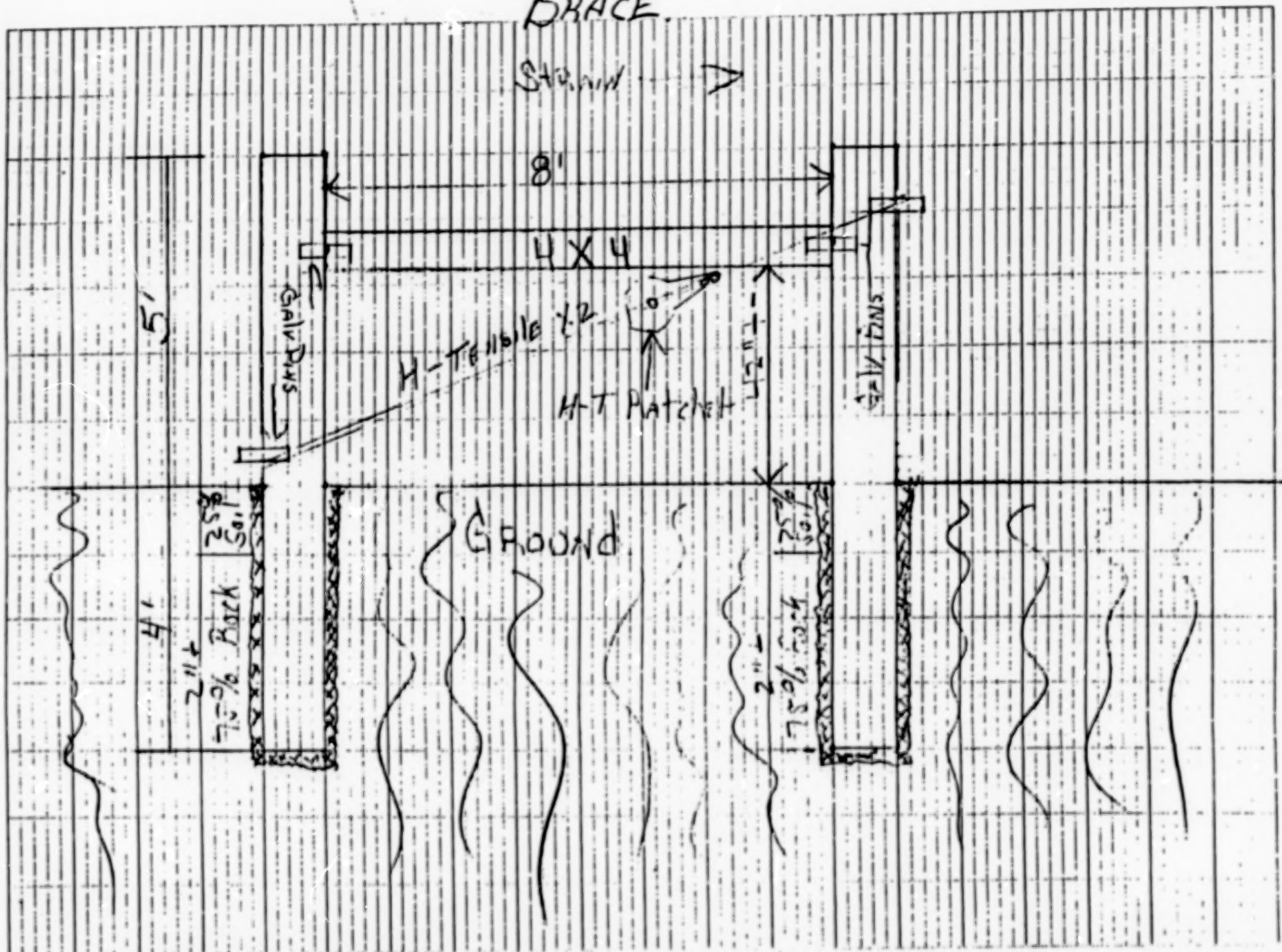
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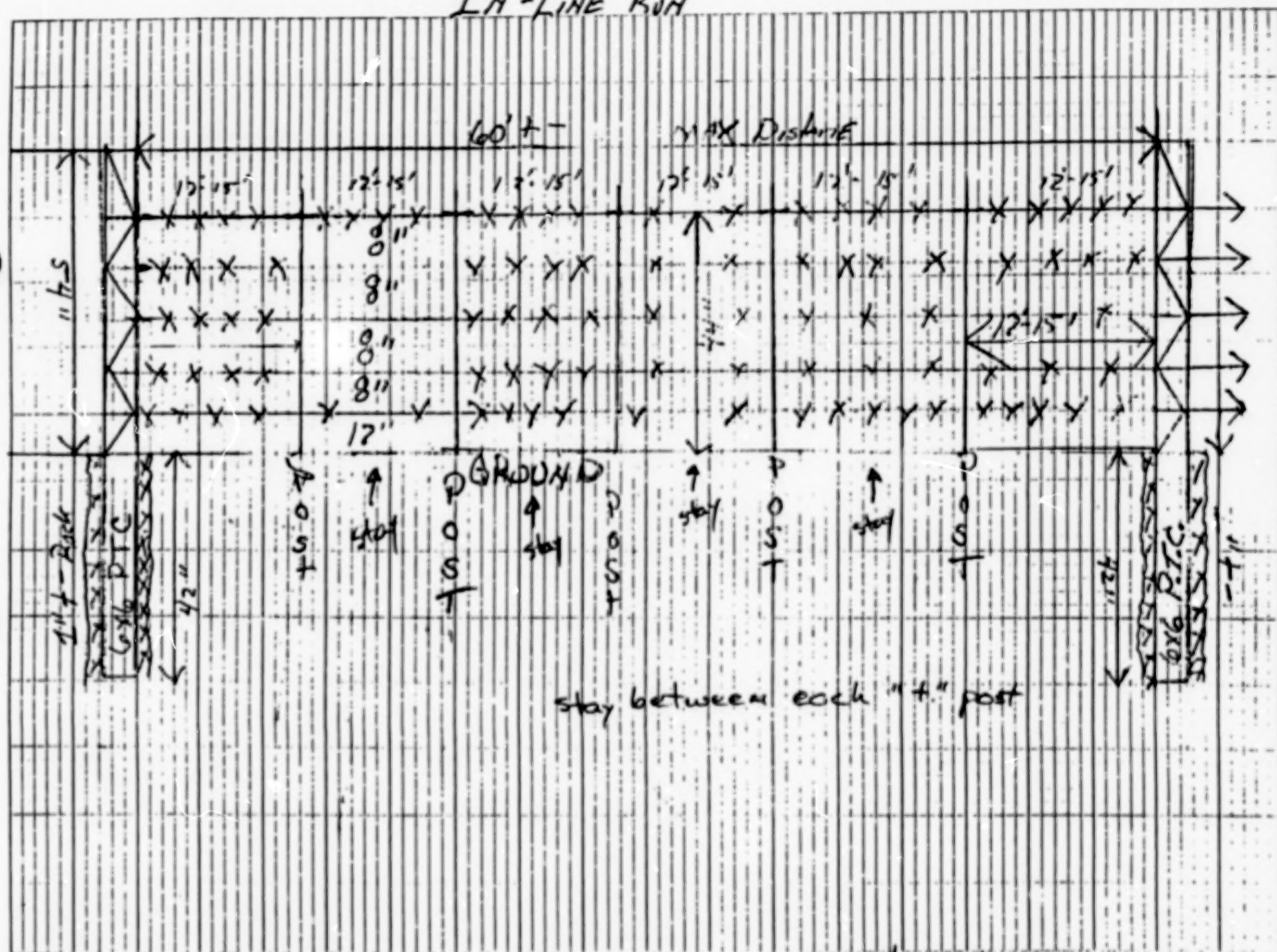
Summary of Expenditures:

	Org. contract	mod#3	total contract	actual
Salary	\$ 42,155.00		42,155.00	41,480.73
Materials	11,326.00		11,326.00	12,010.37
Operating Expenses	1,000.00	604.80	1,604.80	1,638.50
General Administration	5,448.00		5,515.20	5,471.40
Totals	59,929.00	604.80	60,601.00	60,601.00

Stand - A

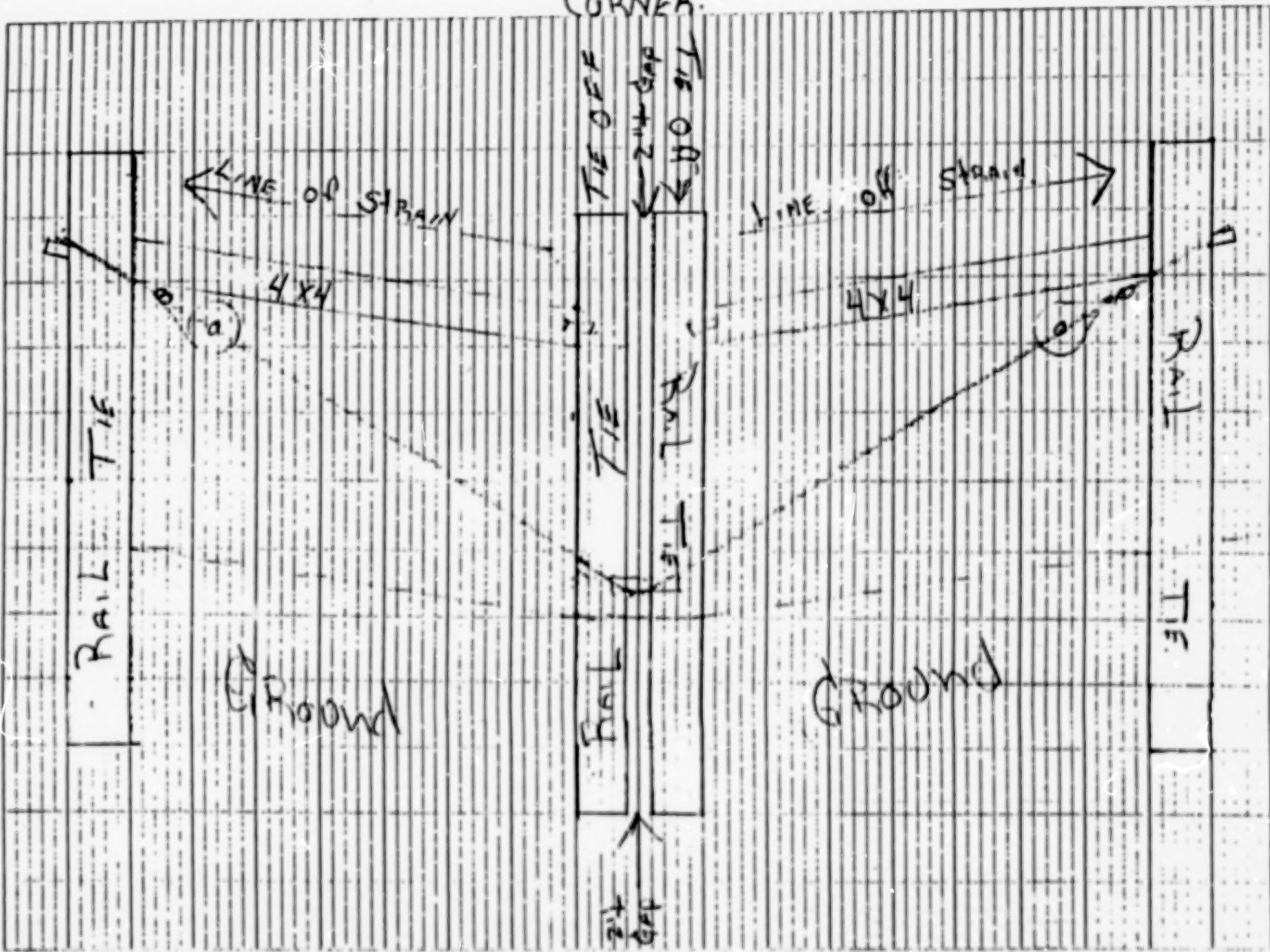


IN-LINE RUN

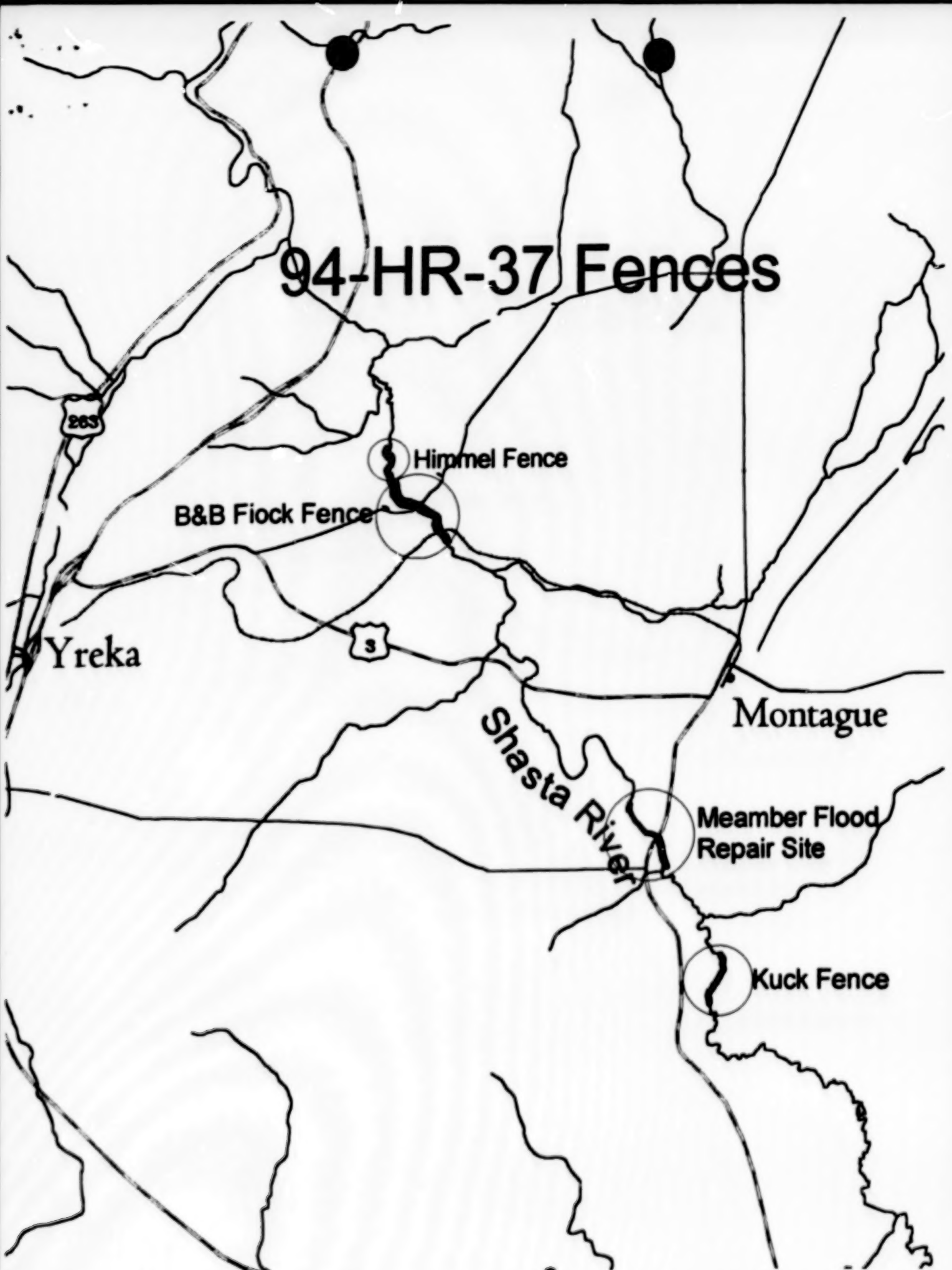


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94-HR-37 Fences



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